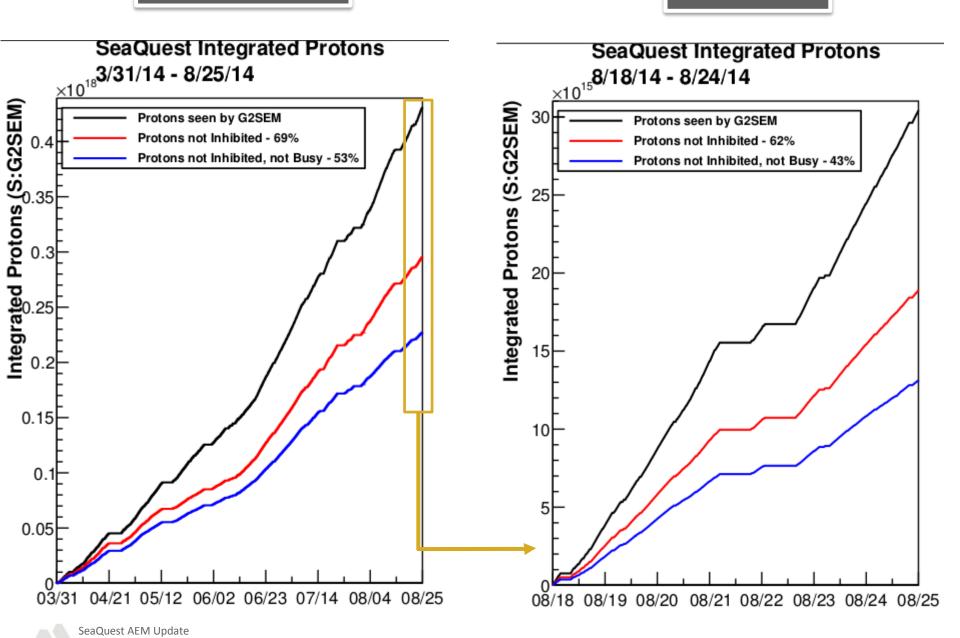


# SeaQuest Status Aug 18 - Aug 24

Brian Tice Aug 25, 2014





#### Detector Status - All systems performing well

- New wire chamber unpacked at Lab 6, had minor damage during shipping
  - 40 wires to repair (6 from shipping damage) does not delay installation
- Chamber to be installed at Station 1 (most upstream) during shutdown next month

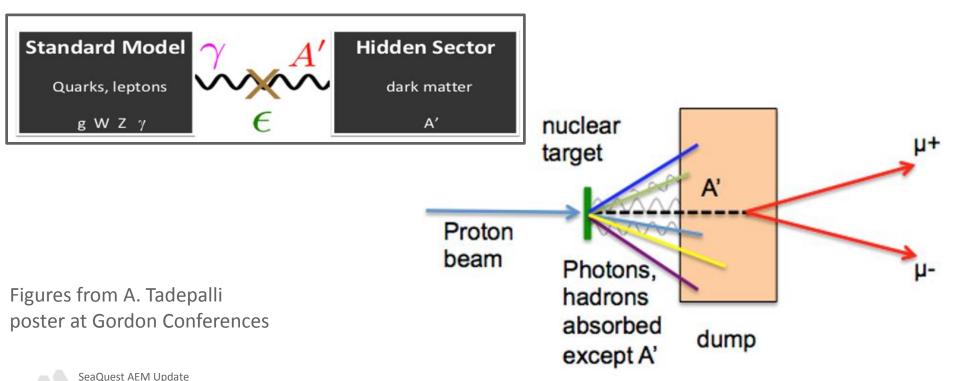


## Target Status - No target issues



### Trigger Update - Improved sensitivity to dark photons

- Added 5 additional trigger roads to existing list
  - 5 roads are predicted to be high efficiency for triggering on dark photons (if any)
  - Did not noticeably change trigger rate



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#### Beam Status - Consistently better, when consistent

- Beam toggled between turn13=3 and 4
  - Tuning at 4 dropped switchyard permit due to high radiation
  - Switched to 3 turns for tuning, then back to 4 turns
- Prefer 4 turns to 3 so we get more live beam, but...
  - Tuning at 4 turns can result in dangerous intensity in our detector
  - Tuning at 3 turns is appreciated as it may bring further improvements
  - Stability is crucial



#### **Beam Status - UNSER monitor connected**

- UNSER monitor, a fast current transformer, in NM3 was connected to lock-in amp
  - Will give absolute calibration of beam intensity just US of targets
  - First test shows it is correctly synced to beamline rf



